

Function	Device	Provider
Shipborne		
Heading (inc.COG)	Magnetic Compass (Flux gate)	Earth!
	Gyro Compass	N/A
	GNSS Device	Service provider
	Loran Compass	Service Provider
	ROT Device	N/A
Speed	Log (Water)	N/A
	Log (SOG)	N/A
	GNSS Device (SOG)	Service provider
Position	GNSS Device	Service provider
	RADAR	N/A
	Terrestrial (Loran)	Service provider
	Inertial Device	N/A
	Augmentation (DGNSS)	Service provider
Time	GNSS Device	Service provider
	Terrestrial (Loran)	Service provider
	Internal clock (onboard system time?)	N/A
Depth	Echo Sounder	N/A
Meteorological	Anemometer (Wind Speed/Direction)	N/A
	Barometer (Air pressure)	N/A
	Thermometer (Air/Water Temp)	N/A
	NAVTEX	Service Provider
	AIS Binary Messages	Service provider
	INMARSAT C (SafetyNet)	Service provider
	HF Facsimile	Service provider
	Internet via satellite	Service provider
Hydrological	AIS Binary Messages	Service provider

	Internet via satellite	Service provider
Traffic Information/Collision Avoidance	AIS (AtoN, VTS Footprint)	Shore/Ship based
	RADAR	N/A
	VTS Sensors	VTS
	NAVTEX	Service Provider
	INMARSAT C (SafetyNet)	Service Provider
	Visual (CCTV/infra-red optical devices)	N/A
Cartography/Hydrography	ECDIS	Internal
	Electronic Chart updates	Service Provider
Navigation Warning	NAVTEX	Service Provider
	AIS (Safety related msg/binary/AtoN)	Service Provider
	Internet	Service Provider
	VTS	Service Provider
	Inmarsat C (SafetyNet)	Service Provider
Distress Communications	GMDSS	N/A
	SARTs	N/A
Track/Heading Controllers	Integration of onboard systems	N/A
Integrity Monitoring	To be developed	
Shoreside		
Traffic Monitoring	AIS	
	RADAR	
	VHF Direction Finders	
	Satellite (LRIT)	
	Visual (CCTV/infra-red optical devices)	
	SONAR	
	Bespoke transponder/tracking devices (e.g. fisheries)	

	Ship Reporting Systems	
	SSAS	
	Satellite Communication Systems	
	Satellite Imagery	
	Extended over the horizon systems?	
	Other Shoreside Network (Data Exchange)	N/A
Distress Communications	GMDSS	MCC
	EPIRBs/PLBs	N/A
	VDRs	N/A
	SSAS	N/A
AtoN Status	AIS	N/A
	Telemetry	N/A
Meteorological	Anemometer (Wind Speed/Direction)	N/A
	Barometer (Air pressure)	N/A
	Thermometer (Air/Water Temp)	Service Provider
	NAVTEX (NBDP or replacement)	Service provider/Ship
	AIS (Binary Messages)	Service provider
	INMARSAT C (SafetyNet)	Service provider
	HF Facsimile	Service provider
	Internet	
	Visibility Device	
	Dew Point	
	Relative Humidity	Service provider
Hydrological	AIS Binary Messages	Service provider
	Internet	
	Wave Height and Direction	
	Current Strength and Direction	

Other Concepts	Display Media	
	HUD (Head up Display)	
	VDR (Voyage Data Recorder)	
	RACONS/RTE	
	EBL from Pelorus	
	Radar Map matching	
	ECDIS/Echo Sounder comparison	
	ECDIS comparison with RADAR	
	Forward looking SONAR	
	Bottom profiling	
	Wave Height RADAR	
	Audio	
	LASER/optical range-finding	
	RTK (Real Time Kinematic) GNSS	
	Docking Systems	
	Multi-beam echo sounder	
	Telephony Devices	
	UWB Devices (Ultra Wideband)	
	Onboard alarm monitoring	
	Motorways of the Seas	
	Inland Waterways Traffic Control	
	Voice Recognition/Control	
	MOB Systems (Man overboard)	
	Fish Finders	
	Physical AtoNs	
	Pseudolite	
Information Bearers/Data Links	Satellite (BGAN)	
	Terrestrial Radio	

